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PN - JP4193742 A 19920713

PD - 1992-07-13

PR - JP19900327475 19901127

OPD - 1990-11-27

TI - MANUFACTURE OF POROUS CRYSTALLIZED GLASS

IN - KOMATSUDANI SHIYUNSUKEHIBUYA TAKEHIRO

PA - NIPPON ELECTRIC GLASS CO

- A61F2/28; A61L27/00; C03C10/02; C03C10/04

C WPI / DERWENT

 Porous crystallised glass mfr. for filling bones - by impregnating organic three=dimensional porous body with slurry of glass powder, drying, heating to remove body and binder, sintering and crystallising

PR - JP19900327475 19901127

PN - JP4193742 A 19920713 DW199234 C03C10/04 004pp

PA - (NIUM) NIPPON ELECTRIC GLASS CO

IC - A61F2/28 ;A61L27/00 ;C03C10/02 ;C03C10/04

- J04193742 Porous crystallised glass is made by impregnating a slurry comprising glass powder having compsn. (by wt.) 22-50% Si02, 8-20% Fe203, 20-53% Ca0, 1-16% Mg0, 0.1-2% F2, 0-8% Al203 and 0-5% B203, water and a binder, into an organic porous body having a three dimensional network, drying heat treating to burn and remove the organic porous body and the binder and sintering and crystallising.

USE - Used for filling lacked bones. High mechanical strength(Dwg0/0)

OPD - 1990-11-27

AN - 1992-281584 [34]

O PAJ / JPO

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PD - 1992-07-13

AP - JP19900327475 19901127

IN - KOMATSUDANI SHIYUNSUKE; other 11

PA - NIPPON ELECTRIC GLASS CO LTD

TI - MANUFACTURE OF POROUS CRYSTALLIZED GLASS

PURPOSE:To obtain a porous crystallized glass having excellent strength, etc., suitable
to use for prosthesis of broken part of bone by mixing the specific composition of glass
powder, water and a binder, impregnating this into an organic porous body having a
three dimensional network structure and executing heat treatment, sintering and
crystallization.

- CONSTITUTION: The glass powder having the composition by wt.% o22-50% SiO2, 8-30% P2O5, 20-53% CaO, 1-16% MgO, 0.1-2% F2, 0-9% AI2O3 and 0-5% B, is manufactured. Successively, this glass powder is mixed with water and a binder to make a slurry and is impregnated into an organic porous body (e.g. urethane foam) having a three dimensional network structure. Further, after drying, the heat treatment is executed to burn and remove the organic porous body and binder. Further, the glass

none

AB

none	none	none

powder is sintered, and by crystallizing, the objective porous crystallized glass having the three dimensional network structure, is obtd.

- C03C10/04;A61F2/28;A61L27/00;C03C10/02

none none none